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IS 13976 (1994): Method of End Blow-off Pressure Test for Composite Cans [CHD 15: Paper and its products]

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Bhartṛhari—Nītiśatakam
“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

सम्मिश्र डिब्बों के लिए सिरा अपधमन दाब के लिए परीक्षण पद्धति

Indian Standard

METHOD OF END BLOW-OFF PRESSURE TEST FOR COMPOSITE CANS

UDC 621·798·144 : 620·173

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

April 1994 **Price Group 2**

Paper and Pulp Based Packaging Sectional Committee, CHD 016

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Paper and Pulp Based Packaging Sectional Committee had been approved by the Chemical Division Council.

This is one of the series of methods of test standards on composite cans and is based on the Composite Can and Tube Institute Standard Testing Procedure C-110 Sep 1980 published by the Composite Can and Tube Institute, United States of America.

The objective of this testing procedure is to provide a uniform method for measuring the pressure required to separate ends from bodies of composite cans.

The composition of the committee responsible for formulation of this standard is given in Annex A.

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to rounded off, it shall be done in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'.

Indian Standard

METHOD OF END BLOW-OFF PRESSURE TEST FOR COMPOSITE CANS

1 SCOPE

This standard prescribes procedure for end blow-off pressure test for composite cans.

2 REFERENCES

The Indian Standard listed below is a necessary adjunct to this standard:

IS No.	*Title*
1060 (Part 1) : 1966	Methods of sampling and test for paper and allied products: Part 1 (*revised*)

3 APPARATUS

3.1 Mandrel

Approximately 25 mm long and about 0·1 mm smaller in its outer diameter than the inner diameter of the cans to be tested. A clamping arrangement, around the outer side of the can board being tested, holding it firmly on the mandrel.

3.2 An Air Supply System

Sufficient to give required pressure and rate of pressure rise enters the apparatus through an on-off valve, then through an air flow control valve and then through the mandrel to its face which is on the inner side of the can sample when mounted in position for testing. An air pressure gauge graduated in (10 KPa) increments or less and capable of measuring air pressure within the test sample.

3.3 Safety Hood

4 PROCEDURE

4.1 Set the air flow control valve to give a pressure rise which results in blow-off in 6 ± 2 seconds.

4.2 Place open end of the can to be tested on mandrel.

NOTE — If both ends are seamed on the can board, the undesired end may be removed by cutting off the can board with an ordinary pocket knife or other suitable instrument within 5 mm of the end to be discarded.

4.3 Lock the clamping device.

4.4 Open the on-off valve.

4.5 Record the reading on the air pressure gauge at the time of rupture of the sample being tested.

5 REPORT OF RESULTS

The following details shall be reported:

i) Identification of sample.

ii) Conditioning history and/or moisture content [*see* IS 1060 (Part 1) : 1966].

iii) Pressure at rupture.

ANNEX A

(*Foreword*)

COMMITTEE COMPOSITION

Composition of Paper and Pulp Based Packaging Sectional Committee, CHD 016

Chairman	*Representing*
Shri K. K. Talwar	The Paper Products Ltd, Bombay
Members	
Shri A. B. Ajmera Shri S. B. Ajmera (*Alternate*)	Card Board Box Manufacturing, Calcutta
Shri Ambrish Bhargava Shri Sanjay Varma (*Alternate*)	All India Small Paper Mills Association, Bombay
Shri V. C. Bhargava Shri S. K. Ghosh (*Alternate*)	Directorate of Plant Protection Quarantine & Storage, Faridabad
Shri D. C. Das Shri R. C. Sharma (*Alternate*)	Directorate of General of Supplies & Disposals, New Delhi
Shri P. Das Shri B. Mallik (*Alternate*)	India Foils Ltd, Calcutta
Dr S. P. S. Dhakerey Shri J. K. Sinha (*Alternate*)	Ministry of Defence (DGQA), New Delhi
Shri V. R. Fadnavis Sr. Manager (Tech) (*Alternate*)	TELCO, Jamshedpur
Dr K. L. Gaba Shri K. C. Gupta (*Alternate*)	Federation of Biscuit Manufacturers, New Delhi
Shri Suman Ghosh Shri Sudip Sen (*Alternate*)	B & A Sacks Ltd, Calcutta
Dr M. B. Jauhari Dr A. G. Kulkarni (*Alternate*)	Indian Pulp & Paper Technical Association, Saharanpur
Shri U. B. Kanchan Shri Ravinder Kumar (*Alternate*)	Ministry of Defence (R & D), New Delhi
Dr S. K. Kapoor Shri Y. V. Sood (*Alternate*)	Central Pulp & Paper Research Institute, Saharanpur
Shri P. R. Kothari Shri R. P. Soochak (*Alternate*)	L & T Ltd, Bombay
Shri P. V. Mehta Shri A. K. Chaterjee (*Alternate*)	Directorate General of Technical Development, New Delhi
Shri A. S. Narayanan	All India Paper & Allied Products Manufacturers Association, Bombay
Shri G. K. Nair Shri N. R. Sanghani (*Alternate*)	Glaxo India Ltd, Bombay
Dr A. N. Nayer Shri Sanjay Nayer (*Alternate*)	Skan Packaging Consultants, New Delhi
Dr S. N. Pandey Dr A. Dey (*Alternate*)	Jute Technological Research Lab, Culcutta
Shri S. N. Phadke Shri V. Sivaraman (*Alternate*)	Tata Oil Mills Ltd, Bombay
Shri M. V. G. Rao Shri Manuj Dutt (*Alternate*)	Indian Paper Makers Association, Calcutta
Shri Rajiv Sah Shri N. K. Agarwal (*Alternate*)	Central Pulp Mills, Songad
Shri P. D. Shah Capt N. K. Dawar (*Alternate*)	Federation of Corrugated Box Manufacturers Association, Bombay
Dr S. V. Singh Shri G. M. Mathur (*Alternate*)	Forest Research Institute & Colleges, Dehradun.
Representative	I. T. C. Ltd, Calcutta
Representative	India Paper Mills Association, Calcutta
Representative	India Agro Paper Mills Association, New Delhi
Representative	Metal Box, Calcutta
Representative	Nestle India Ltd, New Delhi
Representative	Railway Board, New Delhi
Dr R. K. Singh, Director (Chem)	Director General, BIS (*Ex-officio Member*)

Member Secretary
Dr R. K. Jha
Dy Director (Chemicals), BIS

Methods of Test Sub-committee, CHD 016 : 1

Convener	*Representing*
Dr Rajesh Pant	CPPRI, Saharanpur
Members	
Shri S. C. Adak Shri H. R. Iyer (*Alternate*)	Indian Institute of Packaging, Bombay
Shri M. K. Chakraborty Shri B. Mallik (*Alternate*)	India Foils Ltd, Calcutta
Shri M. M. S. Gadhok Shri T. B. Deb (*Alternate*)	I. T. C. Ltd, Calcutta
Shri Denis B. Negueira	Warden & Co., Thane
Dr S. V. Singh Shri R. C. Tandon (*Alternate*)	Forest Research Institute & Colleges, Dehra Dun
Shri V. Subramanian Shri A. N. Srivastava (*Alternate*)	Ministry of Defence (R & D), New Delhi
Dr K. K. Talwar	Paper Products Ltd, Bombay
Representative	CETRI, Mysore
Representative	Central Insecticides Lab, Faridabad
Representative	Defence Food Research Lab, Mysore